

THE TECH

VOL. XXVII. No. 42

BOSTON, MASS., MONDAY, JANUARY 13, 1908

PRICE THREE CENTS

TECH WINS IN FENCING MEET.

SCORE 7-2.

No Trouble in Beating Springfield. Nickerson is Star.

Technology outfenced Springfield Training School Saturday, winning by the score of 7 to 2.

The meet was characterized by lack of form on both sides. Springfield lost several times by violating intercollegiate rules.

The Technology team outclassed Springfield in every way. The new men, J. W. Nickerson 1909 and V. C. Grubnau 1909, did some excellent work. Capt. Fleming excelled for Springfield.

Summary of Bouts:

- 1st bout—Nickerson, M. I. T. defeated Fleming, S. T. S.
- 2nd bout—Grubnau, M. I. T. defeated North, S. T. S.
- 3rd bout—Lange, M. I. T. defeated Hulek, S. T. S.
- 4th bout—Nickerson, M. I. T. defeated North, S. T. S.
- 5th bout—Fleming, S. T. S. defeated Lange, M. I. T.
- 6th bout—Grubnau, M. I. T. defeated Hulek, S. T. S.
- 7th bout—Lange, M. I. T. defeated North, S. T. S.
- 8th bout—Nickerson, M. I. T. defeated Hulek, S. T. S.
- 9th bout—Fleming, S. T. S. defeated Grubnau, M. I. T.

Officials—Ernest M. Loring, Technology; A. P. Cushing and H. S. Breckridge, Harvard, judges. C. W. Ferguson, timer.

AGAIN DEFEATED.

Tech Basket Ball Team Loses to Williams. Score 24-11.

WILLIAMSTOWN, Jan. 11.—Williams opened her basket ball season tonight with decisive victory over Tech, 24 to 11. The Williams team was composed of five entirely new men, as Capt. Templeton did not play because of injuries. Horrax was the star.

TECH.
Johnson lg. ... Hargraves (Pettingill) rf.
Oakley rg. H. Cahill
Horrax c. Wentworth
Waters, lf. rg. Lamont
Fowle rf. Nichols lg.
Score, Williams 24, Tech 11. Goals from floor, Horrax 3, Waters 2, Fowle 2, Johnson 2, Oakley 2, Wentworth 2, Cahill. Goals from fouls, Wentworth 4, Horrax 2, Cahill. Referee, Metzger, (Springfield Training School). Timers, Hobson (Williams) and Pettingill (Tech). Time, 20min. halves.

TECH OVERWHELMS ANDOVER.

Academy Hockey Team Shut Out by Institute. Score 7-0.

ANDOVER, Jan. 11.—Technology overwhelmed Andover Academy at ice hockey this afternoon on Rabbitte pond rink, making seven goals and shutting out the academy team.

Andover was crippled by the absence of seven regulars and was forced to play a defensive game throughout. The Tech men did fine work with so little practice this season. The summary:

TECHNOLOGY. ANDOVER.
O'Hearn rf. lf. Pfau
Kelley lf. rf. Cole
Fordx r. r. Martin
Pine c. c. Twombly
Gould cp. cp. Laurius
Davis p. p. Nichols
Billings g. g. Gifford
Score, Technology 7, Andover, 0. Goals made by O'Hearn 2, Ford 2, Kelley 2. Referee, Connors. Time, 15m. halves.

FIRST ALUMNI DINNER.

1907 held its first alumni dinner Saturday evening at the Union. The speakers were Walter B. Snow, Pres. of the Alumni Asso.; Bursar Frank H. Rand, Prof. George F. Swain and Prof. Arlo Bates.

ACTING PRESIDENT NOYES HAILED AS PERMANENT HEAD OF INSTITUTE AT ALUMNI BANQUET.

INSTITUTE PLAN CLAIMED SUPERIOR TO ELECTIVE SYSTEM.

Idea of Using Copley Hall as Union Taken Up and Commented Upon By Several Speakers.

That the question of the presidency of the Massachusetts Institute of Technology has at last been permanently settled was the opinion expressed by Joseph P. Gray, 77, president of the Boston Manufacturers' Mutual Fire Insurance Company and a member of the Technology Corporation, at the annual dinner of the Tech alumni Friday night at the Hotel Brunswick.

The idea of using Copley Hall for a Union was spoken well of by several of the speakers, President Morss bringing the matter out strongly in his introduction of Dr. Noyes. Dr. Noyes commented on the idea very favorably in his speech.



JOSEPH P. GRAY 1877.

Gov. Guild was the first speaker. He took up the subject of technical education. He touched in his speech on the pride that Massachusetts takes in several of her scientific institutions.

He said in part: "Technical education must not be pushed too far. There must be taught to the student history, philosophy and other broadening studies. The man must not only know how to make a living, but also to make a life."

Everett Morss, president of the Alumni Association, occupied the chair. He spoke of the movement among the students to secure Copley Hall for use as a Union. In introducing Acting President Noyes, he said:

"Many people have wondered why, a couple of years ago, Arthur A. Noyes was chosen chairman of the faculty. The reason is clear now. It was in order that he might be utilized as president of the Institute."

Dr. Noyes spoke, in part, as follows: "Much as the matter has been discussed during recent years, it has seemed to me that there was no more important subject on which I could speak to you tonight than the principles underlying the Institute's system of education in engineering and applied science; for the relations of its field of work to that of other institutions can be understood and its lines of future development can be properly provided for only when those fundamental principles are appreciated. I shall incidentally speak of the educational progress of the past year.

"The higher education of men for the engineering or scientific professions involves three kinds of educational experience:

"First such studies, student activities and social surroundings as give breadth of view and scholarly interests, and develop in the student the personal qualities essential to cordial and effective relations with other men.

"Second, a thorough knowledge of the

fundamental principles of those sciences upon which the future profession depends, a training in scientific method, and a development of the power of investigating scientific problems.

"Third—Specialized knowledge and practice in the branch of engineering or applied science constituting the profession itself, and original work in solving practical problems or in designing new structures or machines.

"These three sides of professional education I will, for brevity, designate the general training, the scientific training and the engineering or technical training.

"Let us consider now how the different types of institutions aim to meet these three requirements. The college, by its bachelor of arts course in the humanities and in the generalities of science, offers what, from the institute's standard of work, represents about three years of general training.

"The university in its schools of medicine or engineering then takes these bachelors of arts, without adequate scientific training, though perhaps with some scientific knowledge, and gives them in a period of three years more a combination of scientific and technical training.



FRANCIS R. HART 1889.

"The Institute, speaking generally, may be said to devote the first two and a half years of its courses to a combination of general and scientific training in not far from equal proportions, and to give the last year and a half to engineering or technical training.

"We believe that, aside from its professional aspect, the supplementing of general studies by a scientific training in the first three years gives a broader culture and a better preparation for life than the usual college course where there is no concentration of effort in any one direction and where the instruction in sciences is made subordinate. We believe, too, that the co-ordination of general and scientific studies throughout a single course gives better results rather than the plan of having the one precede the other.

"We question even the correctness of the fundamental principle of the university plan that the early years of a young man's education should be devoted to the acquirement of culture and the later years to scientific and technical training.

"We believe the opposite plan is the natural one: the young man must be thoroughly trained in the earlier years to work hard, to think clearly, to express himself well, and to attack and solve problems; that the expansion of his mental horizon which constitutes cul-

(Continued on page 3.)

SOPHOMORES LAND MEET BY AID OF FRESHMEN.

SENIORS LOSE IN LAST EVENT.

Victors Roll Up 27 1/2 Points. 1908 and 1911 Have Close Call.

With one record shattered and the outcome not decided until after the last event had been run, the Tech sophomores came out victorious in the annual indoor games Friday night, with 27 1/2 points to the seniors' 24 2/3. The freshmen followed, a third of a point in the rear, having 24 1/3 points. The juniors were last with 11 1/2 points.

To the freshmen, however, must be given the credit for helping 1910 to win, for it was by the work of the two first year men, White and Salisbury, in shutting out the senior star, Gimson, from better than third place in the half mile that the sophomores were enabled to maintain their slight lead. Had Gimson won the event, as was expected, the meet would have gone to 1908.

This contest was the best of the night, for P. D. White 1911, the winner, broke the Tech indoor record for the distance by over two seconds. His time for the race was 2m. 11 1/5s.

Another record seemed on the point of being broken in the pole vault, as each time in the try for the record the bar was knocked off by a mere touch. On his first try for the height G. Schobinger 1908, had the pole break under him while in the air, but he escaped without being hurt. In the final result Schobinger, Salisbury and Capt. Orr tied for first place, the latter winning the toss for the cup. The points were divided.

In the high jump, Allen, the long-legged star of last year's team, made his first appearance for the season, and walked away with the event without trouble.

A very pretty race was seen in the one mile, in which a dark horse in the person of L. O. Mills proved himself the best by romping past the tape an easy first in the fast time of 5 minutes 11 1/5 seconds.

In the shot-put, Fred Moore of the junior class did better work than has been done in an indoor meet for several years, putting the weight 35 feet 10 3/4 inches. The summary:

35 yard dash—First heat, won by K. D. Fernstrom 1910; second, H. W. Blackburn 1908; time, 4 2/5s.

Second heat, won by D. R. Stevens 1911; second, W. J. Seligman 1911; time, 4 2/5s.

Third heat, G. Schobinger 1908, and H. Lockett 1910, tied for first; time, 4 3/5s.

Heat for second men, won by W. J. Seligman 1911; second, G. Schobinger 1908; time, 4 2/5s.

Final heat, won by W. J. Seligman 1911; second, K. D. Fernstrom 1910; third, G. Schobinger 1908; fourth, D. R. Stevens 1911; time, 4 3/5s.

40 yard hurdles, won by K. D. Fernstrom, 1910; second, G. B. Cummings 1910; third, G. Schobinger 1908; fourth, W. J. Pead, Jr. 1910; time, 5 4/5s.

440 yard dash, won by H. W. Blackburn 1908; second, K. D. Fernstrom 1910; third, G. B. Cummings 1910; fourth, H. Lockett 1910; time, 59 1/5s.

880 yard run, won by P. D. White 1911; second, W. C. Salisbury 1911; third, B. L. Gimson 1908; fourth, J. D. McKenzie 1911; time, 2m. 11 4/5s.

One mile run, won by L. O. Mills 1910; second, W. T. MacCreddie 1911; third, C. P. Eldred 1911; fourth, J. N. Stephenson 1909; time, 5m. 11 1/5s.

High jump, won by R. H. Allen, height 5ft. 6in.; E. Stuart 1910 and H. W. Blackburn 1908, tied for second at 5ft. 5in.; G. Schobinger 1908 and F. Moore 1909 tied for fourth at 5ft. 3in.

Shot put, won by F. Moore 1909, distance 35ft. 10 3/4in.; second, C. W. Morrison 1908, distance 35ft. 6 1/4in.; third, J. H. Ruckman 1910, distance 33ft. 4 1/2in.; fourth, M. E. Allen 1908, distance 33ft. 2 3/4in.

Pole vault, T. W. Orr 1908, G. Schobinger 1908, and W. C. Salisbury 1911, tied for first at 10ft.; fourth, W. D. Allen 1911, height 9ft. 6in. Orr won

THE TECH

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Editorial Staff.

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W. F. DOLKE, 1903	Managing Editor
D. C. MCMURTRY, 1910	Sporting Editor
CHANNING TURNER, 1908	
H. I. PEARL, 1910	
W. D. GREEN, 1909	Associate Editor

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Monday, January 13, 1908.

THE TECH.

In the last issue of the school term it will perhaps to bring before everyone a few points in regard to The Tech of the past and future.

It is generally recognized that there has been an improvement in the paper both typographically and in news matter. A greater effort has been made to "cover" more thoroughly the happenings in the Institute student life. Articles on the scientific work of the departments, both by professor and student, have been printed at greater length than formerly. The thoughts and ideas of the various heads of departments and men prominent in the scientific world have been published in special articles. Mere "plate" or clipped matter has been excluded from the columns. About a column and a half more matter has been printed per issue than in former years. An attempt has been made to hold to a steady, sane editorial policy.

All of this has meant work, more work than one not versed in newspaper publishing has any conception of. At the opening of the school year the burden fell on one or two men. As the organization was perfected more men took part. Due to small number of candidates for the staff, the burden is too heavy for the editors.

In order to bring the candidates now out for the staff to the realization of the responsibility and work connected with the publishing of the paper they were left to manage and edit the last issue. The result was very satisfactory from the viewpoint of training for the candidates. It also showed what would happen to The Tech if more men do not come out for the staff.

The present editors cannot afford to further sacrifice their time and, mayhap, studies in the struggle to present to Technology a fairly bright, newsy sheet. That the Institute needs and wants such a publication is well shown by the sales of the paper and the comments by the alumni.

All through the school year the paper speaks for the various activities, calls for candidates for the show, the athletic teams and what not, and advertises the various student affairs. Looking at it from purely a selfish viewpoint these activities should feel it a duty to see that this advertising medium is good, that it reaches a larger number of students and is in the hands of capable and experienced men.

The other points of advantage in the work on The Tech are the contact with the heads of departments and leaders, both in the Institute work and student activity, the insight into the different Institute courses and student enterprises, and the feeling of having done something for the community of Technology.

At the opening of next term, The Tech will need twenty to thirty candidates. With this number out the work for none will be arduous, yet there will be enough to give all a good training and an opportunity to partake in the many advantages in the publishing of the paper.

COMMUNICATION.

To the Editor of the TECH:

While the writer agrees to some extent with the author of the article in the last TECH under this heading, yet there are one or two statements therein contained with which he is not in accord.

It seems somewhat presumptuous for the editors of even so important a paper as the TECH to pass upon the matter of a Tech Song, both for the present and future, as evidenced by the statement, "The Stein Song is not a Tech song and never will be." This surely should be left to a vote of the students—past, present and future.

The statement that "Bullard was a Dartmouth graduate before he entered Tech" is untrue. There is no mention of Dartmouth College in the Institute records in the Registrar's office, as there would have been had he ever studied there.

These records show that Bullard entered the Institute in September, 1883, directly from the Boston Latin School on a certificate of clear admission to Harvard College. He specialized in chemistry for three years, entered the employ of Henry A. Gould and Co. on Pearl St., dealers in aniline dyes as a chemist, and remained with them until the summer of 1888. In company with Dr. Noyes 1886, Dr. Mulliken 1887, and the writer, he then sailed for Europe and began the study of music with Rhineberger in Munich. This would seem to prove conclusively that he had no connection whatever with Dartmouth College.

There is a rumor that the song was composed for a dinner of the Latin School Association and that it would have a prior claim thereto. Inasmuch as far as the writer knows, it has never been adopted by this association and that it has been sung by Tech men for at least five years, don't let us so heartlessly disown it—it's too good—but treasure it carefully as one of our Tech songs—one of the very best.

A. H. GILL, '84.

TEAM TO TAKE NEW YORK TRIP.

Basket Ball Team Will Visit the Metropolis Next Month.

Technology's basket ball is now well advanced. The following games remain to be played: Jan. 15, Lowell Textile at Lowell. On the New York trip the games played will be as follows: Feb. 5 Pratt Institute at Brooklyn, Feb. 6 Brooklyn Polytechnic Institute at Brooklyn, Feb. 7 College of the City of New York at New York, Feb. 8 U. S. Military Academy at West Point.

PROF. SWAIN AGAIN HONORED.

Vice-President of Important Section of A. A. A. S.

Professor Swain has just returned from Chicago where he and Prof. Woods represented the Institute at the convention of the American Association for the Advancement of Science. He has just been elected vice-president of Section D of the association, which is concerned with mechanical science and engineering. At the convention Profs. Swain and Woods took an active part in the discussion of the methods of teaching mathematics to engineers.

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ACTING PRESIDENT NOYES.

(Continued from page 1.)
ture must be a gradual process going on through all the years of his study and through his subsequent life.

"If at the end of our course we can send our men forth with well developed faculties, with high ideals and earnestness of purpose, and with sufficient general education to realize the variety of human activities, we can safely trust to the future years of contact with the world and of natural development to bring added breadth of view and that intangible quality which is called culture.

"We hold, too, that while the student should be given the freest choice as to the profession and the branch of the profession for which he wishes to prepare himself, we are the better judges of what special studies are adapted to give him that preparation; we believe in offering a large choice of courses with options within those courses, but not in the unregulated elective system. Finally, we must appreciate the great advantage of our sound student life and the possibilities of further developing it under conditions which will not introduce the serious evils that often attend it in the colleges.

"I have discussed these characteristics of our undergraduate courses, because it is important for us all to realize that the Institute has a field and system of education of its own in which it is highly successful.

"A feeling seems to have arisen among some of the older alumni that they missed at the Institute something which a college course would have given them. This feeling arises, I believe, from the failure to realize that much of what they missed on the social side is now in large measure provided for by the great development of student life which has taken place within the last ten years; and that, if they did miss something, they got more than an equivalent in acquiring the solid qualities which the college course so often fails to give. It is an interesting fact that the college men upon our Faculty who have had experience with both systems of education are the heartiest believers in our own.

"It is, of course, true that a larger amount of time than four years could with advantage be devoted to each one of the three sides of our professional education; and we must offer additional opportunities in these directions.

"It must, on the one hand, be distinctly recognized that we cannot hope to give in this period the specialized knowledge and the training in investigation that it is desirable that the fully educated engineer or scientific expert should have; and we must make obvious to all students the importance of returning for a fifth year in order to secure these advantages.

"An advanced course made up of such subjects and of investigation work will remedy the difficulty of insufficient engineering training; but it is also, I believe, important for the Institute to offer to its students another type of five-year course which will enable those who can afford the time to secure a broader general training and a more thorough scientific foundation.

"A plan for accomplishing this, which is under consideration by a Committee of the Faculty, consists in offering a three-year course in general science made up partly of required and partly of elective subjects of such a character that the student who has completed it can enter the third year of any of our regular Courses and finish it in two years more.

"Such a three-year course carried on by the methods and in the atmosphere of the scientific school can hardly fail to be more cultural in the truest sense than the usual college course taken upon the elective plan without a definite professional aim in view.

"While it is highly desirable to offer to our students such opportunities as these for a broader as well as for a more thorough and specialized education, I believe the results of our four-year course are at present sufficiently satisfactory to make it unwarranted to require for our Bachelor's degree a longer term of study than four years, at any rate so long as the cost can not be materially reduced; for we should thereby limit the number of young men who are able to educate themselves for the scientific professions.

"I hold this belief the more strongly because the possibilities of our four-year period have not as yet been fully realized. It is, therefore, to increasing the effectiveness of our undergraduate instruction and to improving the social and physical conditions of our student

life that our attention must be mainly devoted; and with the solution of these problems the Faculty and its administrative officers are engaged.

"Because we of the Faculty are earnest believers in the plan of education for which the Institute stands and in the kind of training which it affords, it must not be thought that we fail to realize that there are many defects in our execution of that plan and many individual cases in which an adequate training is not secured.

"The development which student activities have undergone within recent years is perhaps not appreciated by many of the older alumni, who are apt to picture the Institute as they knew it during their own student days.

"This development has, moreover, been in the main a thoroughly healthy one; and there is today in our student body a loyal, earnest, democratic spirit such as exists in few institutions.

"The activity has been well illustrated during the past two weeks by the vigorous agitation on the part of a dozen different student organizations for the use of the Institute Building on Clarendon Street now occupied by the Copley Society, as a social and dining hall, which might serve temporarily the purposes of the Walker Memorial Building.

"This suggestion should receive the careful consideration of both Corporation and Alumni; for, if financial provision for it can be made and a just arrangement with the Copley Society can be effected, it has much to commend it. It will afford a general and readily accessible gathering place for all our students. In it meals can be furnished at low cost of better quality and under better social conditions than those afforded by the cheaper class of boarding houses. Rooms can be made available for the offices of the general student organizations, such as The Tech and the Technique boards, the Tech Show management, the musical clubs, and for the meetings of other student societies. Perhaps the most important consideration of all is that this temporary experiment will give us at small expense a most valuable experience, which will enable us to make more perfect arrangements for the permanent Walker Memorial.

Dr. John H. Finley, president of the College of the City of New York, spoke on the education of the city youth and the profession of teaching.

Joseph P. Gray 1877, then spoke as a term member of the Corporation. He said:

"Of the two questions before the Corporation, faculty and alumni, the site question has been set back by the financial depression. The president question has been temporarily settled by the selection of Dr. Noyes. Who knows but what this will permanently settle the question?"

The new treasurer, Francis R. Hart, spoke briefly on the financial need of the Institute and the great help that the alumni income fund had been to the Institute authorities. He gave the sum received from the alumni in the past two years as \$89,000. He then touched upon the possibility of bettering the Institute's social conditions by using the Copley Hall building.

STUDENT LIFE IN PARIS.

Mr. Coolidge Addresses Architectural Society in Work at Beaux Arts.

Student life in Paris was the subject of a very interesting address by Mr. Coolidge, of the firm of Shiplen, Rutledge and Coolidge of Boston, to the members of the Architectural Society last Friday evening at the Union. Mr. Coolidge, before his course at the "Ecole de Beaux Arts," at Paris, studied two years at Tech and so was able to draw some very interesting comparisons between the two schools.

NOTICES.

TECH SHOW.—Meeting of men writing show music in 34 Rogers at one o'clock Saturday, Jan. 18.

TECHNOLOGY EPISCOPALS.—There will be a special corporate communion for Technology Episcopal churchmen in Trinity Church, Sunday morning, January 19th, at 9 o'clock.

THE TECH.—This is the last issue of The Tech in this term. The first issue of the second term will appear on the opening day, February 11.

The Technology Review

A QUARTERLY MAGAZINE
DEVOTED TO THE INTERESTS OF
THE MASSACHUSETTS INSTITUTE
OF TECHNOLOGY

AND
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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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CALENDAR.

Monday, January 13.

4.00 P. M. Meeting of the Board of Editors of The Tech in 30 Rogers.
7.00 P. M. Musical Clubs Meet at Trinity Place Station for Auburndale Trip.

8.00 P. M. Musical Club Concert at Auburndale.

Tuesday, January 14.

4.00 P. M. Meeting of the News Staff and Candidates of The Tech in 30 Rogers.

Wednesday, January 15.

4.00 P. M. Hockey vs. Tufts at Braeburn.

6.30 P. M. Instructor's Club Meet at Technology Club.

8.00 P. M. Basketball vs. Lowell Textile School at Lowell.

Thursday, January 16.

8.00 P. M. Musical Clubs Concert at East Boston.

Saturday, January 18.

1.00 P. M. Meeting of men writing Show Music in 34 Rogers

7.00 P. M. Hockey vs. Braeburn at Braeburn.

8.00 P. M. Basketball vs. Brown at Providence.

8.00 P. M. Fencing vs. Harvard at Cambridge.

Last Exercises for Seniors and Juniors. Semi-annual examinations Begin.

Sunday, January 19.

9.00 A. M. Corporate Communion of Technology Episcopalists at Trinity Church.

Thursday, January 23.

Last Exercises for Sophomores.

Saturday, January 25.

Last Exercises for Freshmen.

Saturday, February 1.

Last Examinations for First Term.

Tuesday, February 4.

8.00 P. M. Basketball vs. N. Y. University at New York.

Wednesday, February 5.

2.00 P. M. Hockey vs. Yale at New Haven.

8.00 P. M. Basketball vs. Pratt Institute at Brooklyn.

Thursday, February 6.

2.00 P. M. Hockey vs. Springfield T. S. at Springfield.

8.00 P. M. Basketball vs. Brooklyn Polytechnic at Brooklyn.

Friday, February 7.

2.00 P. M. Hockey vs. Williams at Williamstown.

8.00 P. M. Basketball vs. C. C. N. Y. at New York.

Saturday, February 8.

2.00 P. M. Hockey vs. West Point at West Point.

2.30 P. M. Basketball vs. West Point at West Point.

Tuesday, February 11.

Beginning of Second Term.

First Issue of The Tech for the Second Term.

NOTICES.

INSTRUCTORS' CLUB.—There will be a meeting of the Instructors' Club at the Technology Club, on Jan. 15th at 6.30 o'clock. The speaker will be Mr. Lawrence Minot.

1911.—Nomination for 1911 track manager open until Wednesday, 4.00 P. M. Leave at Cage for Stamper, signed by ten men.

CLASSIFIED ADS.

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